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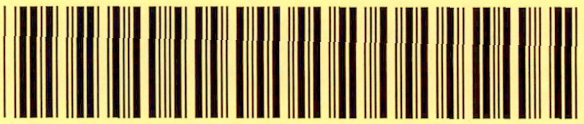

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NCDENR
North Carolina Department of Environment and Natural Resources
Division of Waste Management
Dexter R. Matthews
Director

Beverly Eaves Perdue
Governor

Dee Freeman
Secretary

File Copy

January 20, 2010

Mr. Gordon Haught
109 Atkinson Street
Hamlet, NC 28345

Re: Private Water Supply Well Resampling Results and Health Risk Evaluation

Dear Mr. Haught:

Please find the enclosed laboratory results for the water supply well sample that was collected from your well by the Inactive Hazardous Sites Branch (IHSB) of the North Carolina Department of Environment and Natural Resources (NCDENR) in December, 2009. The sample was analyzed for volatile organic compounds (VOCs). As shown on the laboratory report, 1,1 dichloroethene (1,1 DCE) was detected with the concentration of 10 parts per billion (ppb) slightly exceeding the maximum contaminant level (MCL) of 7.0 parts per billion.

The laboratory results were also forwarded to the Division of Waste Management's Industrial Hygiene Consultant for review. The Industrial Hygiene Consultant's Health Risk Evaluation is attached. As indicated on the Health Risk Evaluation, the water from this supply well "should not be used for drinking or cooking".

If you have any questions or comments, please feel free to give me a call at 910.433.3354. Thank you once again for your cooperation.

Sincerely,

David L. Brown

David Brown, L.G.
Hydrogeologist II
Inactive Hazardous Sites Branch

cc: Penny Myers, 6508 Berridge Drive, Wilmington, NC 28412

MEMORANDUM

DATE: December 12, 2010

TO: Dave Brown, Hydrogeologist
Inactive Hazardous Sites Branch

FROM: Hanna Assefa, Industrial Hygiene Consultant
Inactive Hazardous Sites Branch

RE: Health Risk Evaluation
Gordon Haught. Residence
109 Atkinson St.
Hamlet, Rockingham County

A water sample was collected on December 3 2009 from the water supply well at the subject address. During this sampling event, two contaminants were detected in the well water. The concentration of 1,1-dichloroethene exceeded it's applicable standard. The standards used to determine if the water is suitable for drinking and cooking are the federal drinking water standards (USEPA MCL), or where there is no MCL, the North Carolina Groundwater Quality Standard (NC 2L).

If any contaminant concentrations exceed applicable standards for using the water for drinking and cooking, those contaminant concentrations are further analyzed to determine if the water is suitable for household uses, such as showering, bathing, washing dishes, flushing toilets, and hand washing. **Based on this evaluation, and the fact that the 1,1-dichloroethene concentration exceeds the USEPA MCL, the water from this well should not be used for drinking and cooking. The water from this well can be used for the other residential purposes described above.** The table below compares detected contaminant concentrations with the applicable standards.

Sample ID	Compound	Concentration (ug/l)	USEPA MCL(ug/l)	NC 2L (ug/l)
KL04012-005	1,1-Dichloroethene	10	7	
	1.1-Dichloroethane	1.4		6

Shaded area indicates exceedance.

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

NCDENR - DWM - DSCA
401 Oberlin Rd
Suite 210
Raleigh, NC 27605
Attention: Dwayne Peterson

Project Name: **Bostian, Kiker, Atkinson**

Lot Number: **KL04012**
Date Completed: **12/16/2009**

Nisreen Saikaly
Project Manager

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA** Laboratory ID: **KL04012-005**

Description: **AS-01** Matrix: **Aqueous**

Date Sampled: **12/03/2009 1345**

Date Received: **12/04/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/08/2009 1757	DLB		23229

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	**75-34-3**	**8260B**	**1.4**		**0.50**	**ug/L**	**1**
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	**75-35-4**	**8260B**	**10**		**0.50**	**ug/L**	**1**
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
1,4-Dioxane	123-91-1	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
H = Out of holding time
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **NCDENR - DWM - DSCA**
Laboratory ID: **KL04012-005**
Description: **AS-01**
Matrix: **Aqueous**
Date Sampled: **12/03/2009 1345**
Date Received: **12/04/2009**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/08/2009 1757	DLB		23229

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time